

EÜK-SN screed-covered duct system

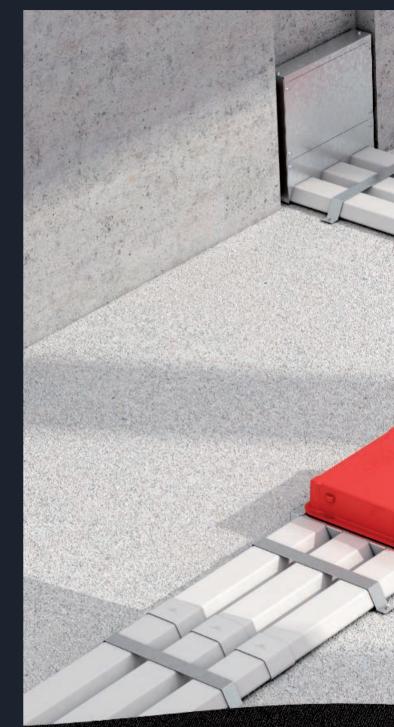
Access to power and data hidden in the screed



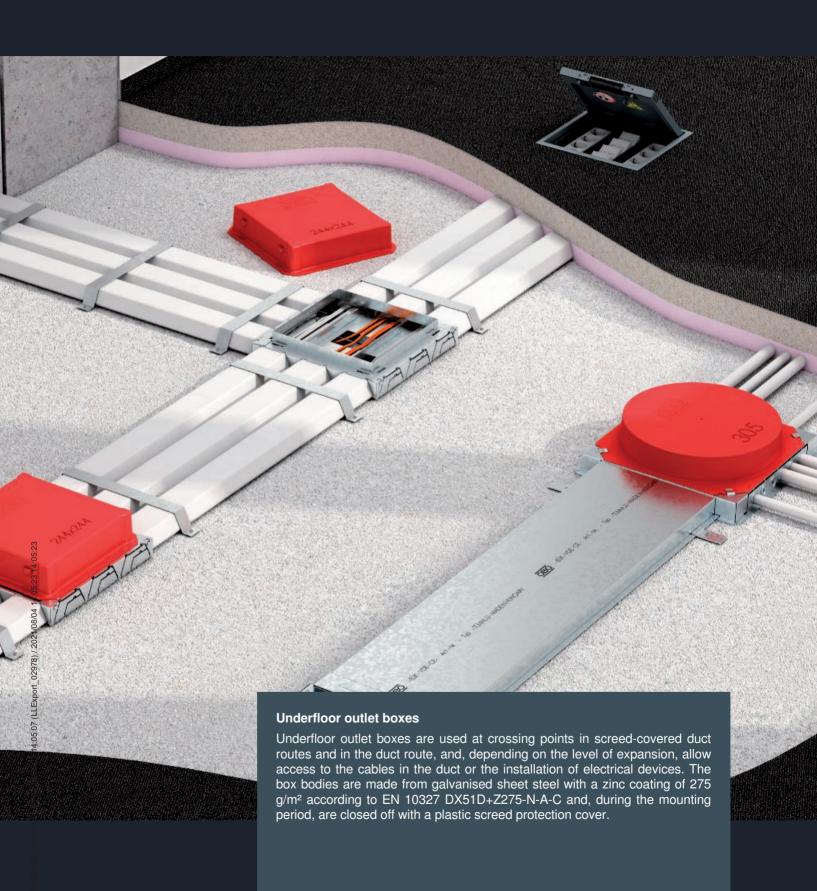
EÜK-SN screed-covered duct system

The EÜK-SN screed-covered duct system from OBO is the ideal electrical installation system for large areas with fixed furnishing plans, for example in office or administration buildings. Duct sections and underfloor boxes form a tight grid, hidden in the screed, for cable routing. When combined with device installation units, access is given to power, data and multimedia technology.

Single-compartment PVC duct systems, multi-compartment metal ducts and installation pipes are suitable for cable routing beneath screed layers.







Floor structure

This means that the interior is protected against soiling also during the screed work. After screed laying, the section of the screed protection cover above the screed is removed. The service outlet or the inspection cover can be installed directly in the opening created.

Raised screed protection cover mounting

Attach the raised screed protection cover to the existing screed protection cover and stick it fast.



MAN YAN III





Universal application



Equipotential bonding

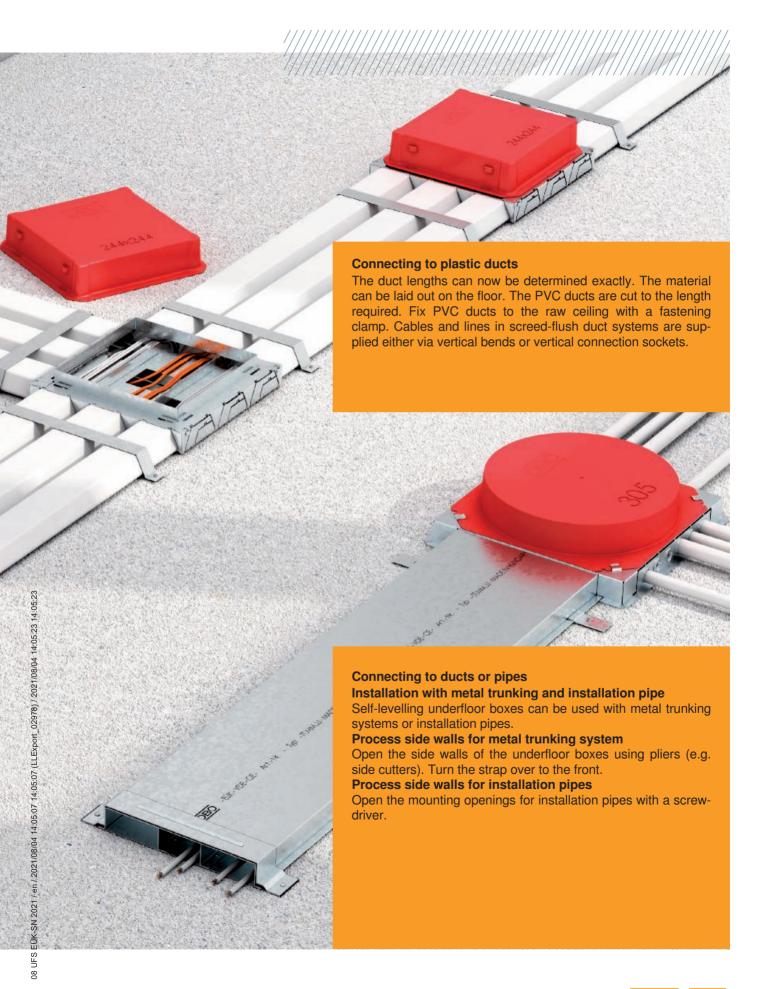
It is recommended to include the screed-covered EÜK duct system in the equipotential bonding. The EÜK system provides the required connection options for protective conductors. All system components are continuously conductive. The EMC regulations according to DIN EN 50174-2 (VDE 0800-174-2) require the inclusion of all metal system components to the connection point as part of the functional equipotential bonding.

Earthing of the duct system

The connection angle VW E forms the conductive connection between the duct and the underfloor socket.

Earthing of the top frame

Metal parts are live in case of an error. The protective conductor connection bracket 8AWR includes the underfloor socket in the equipotential bonding. The contact screw is tightened with a torque of at least 1.2 Nm. Alternatively, the components can also be connected conductively using external connections, through soldering, welding, riveting or screwing.



Range of functions – a fixed point

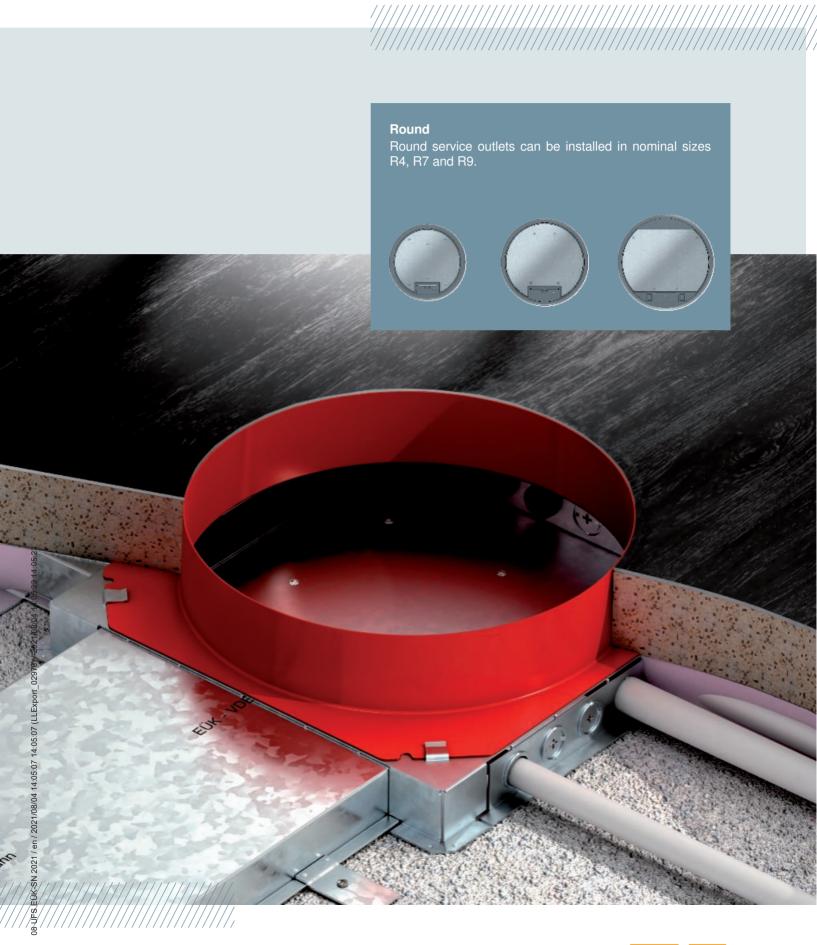




Flexible equipment

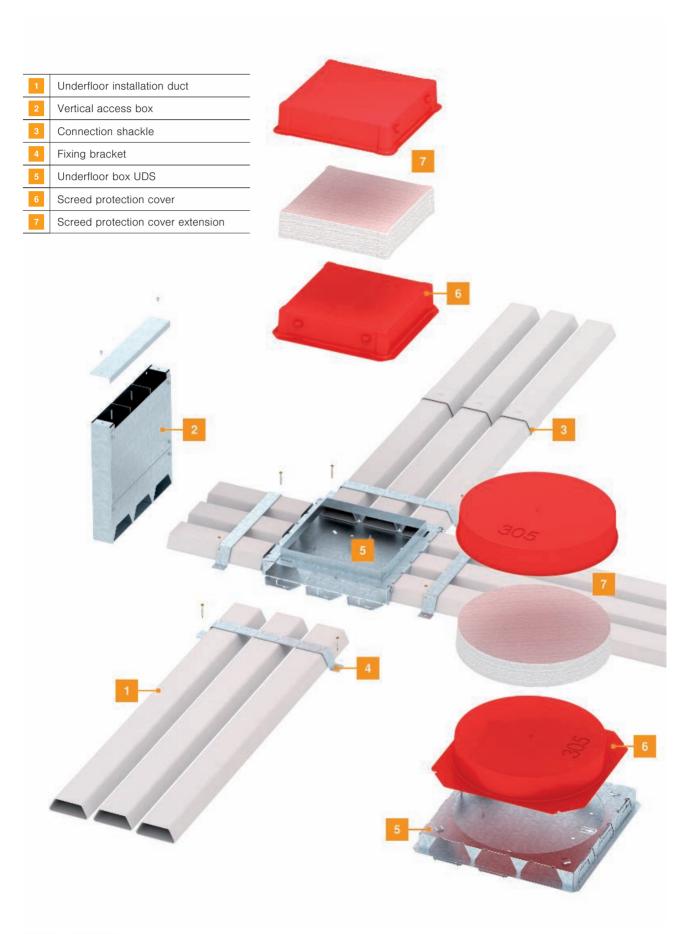
Device installation units, in the form of cassettes and service outlets, can be installed in underfloor boxes from the EÜK-SN system.



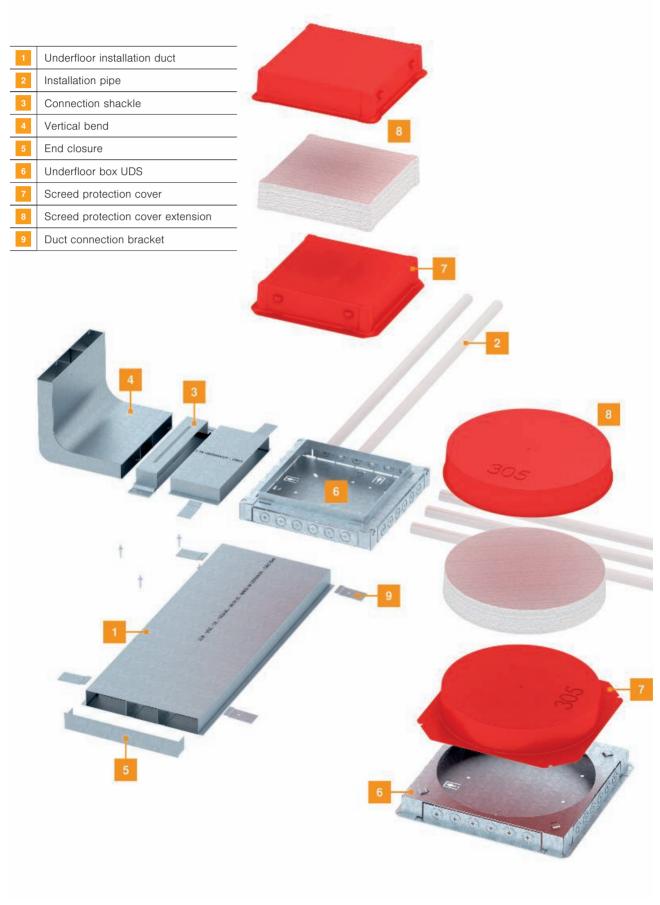


Installation principle

Screed-covered duct system with PVC duct



Screed-covered duct system, EÜK with metal duct and installation pipe

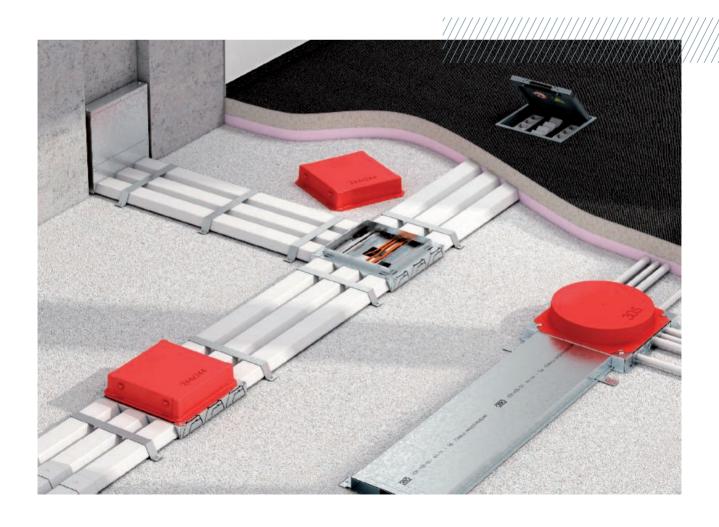


Filling overview – filling factor

Cables in an installation duct

Here, you can find an overview which tells you how many cables of which diameter fit into which compartment width. Always observe an initial filling factor of 50%.

60 x 25 number of cables				8										
Cable Ø in mm		6	7	8	9	10	11	12	13	14	15	16	17	18
Duct height 25 mm		14	10	8	6	5	4	3	3	2	2	2	1	1
			'											
90 x 35 number of cables		'												
90 x 35 number of cables Cable Ø in mm	5	6	7	8	9	10	11	12	13	14	15	16	17	18



Planning checklist

When planning a screed-covered underfloor system, the following points should be observed:



Matching of floor construction (screed height, screed type, insulation, sealing, etc.) to the architecture.



Observe minimum installation depth of device installation units.



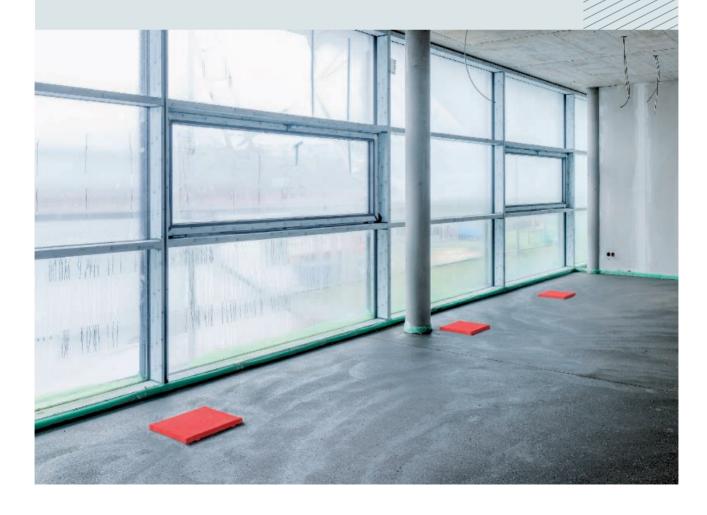
Match the structural physics requirements (loads, footfall sound, etc.).



Select device installation units according to the floor care.



Determine the distances between two underfloor sockets, taking into account strain loads and bend radii.



EÜK PVC underfloor installation duct, duct height 25 mm

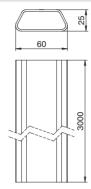




		Trun-		Number	Cross-				
		king		of compart-	section				
	Width	height	Length	ments	draw a	Pa	ack	Weight	
Type	mm	mm	mm	рс.	mm ²	m	1	kg/100 m	Item no.
DU 6025	60	25	3000	1	1030	3		43.000	7425900
DO 0023	00	20	0000	1	1000	5		40.000	1423300

Trapezoidal duct, one-compartment, for use in cement screeds and under false floors.

An important precondition for correct underfloor installation is the screed structure. In the case of a screed-covered system, it is important that the screed thickness above the duct has a sufficiently high load capacity.



EÜK duct connector









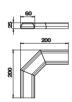


Coupling element for connecting one-compartment PVC duct lengths with a trapezoid-shaped cross-section.

EÜK horizontal bend









EÜK vertical bend









Vertical bend, 90°, suitable for duct size 60x25

DC6025 25

EÜK fastening clamp







Fixing strap for three neighbouring 1-compartment PVC duct lengths of width 60 mm.

EÜK-SN PVC underfloor installation ducts, 35 mm

7428342

10.000

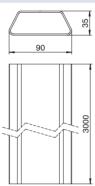


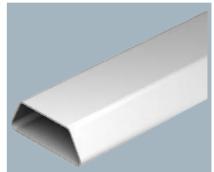
EÜK PVC underfloor installation duct, duct height 35 mm



Trapezoidal duct, one-compartment, for use in cement screeds and under false floors.

An important precondition for correct underfloor installation is the screed structure. In the case of a screed-covered system, it is important that the screed thickness above the duct has a sufficiently high load capacity.







Duct connector







Coupling element for connecting one-compartment PVC duct lengths with a trapezoid-shaped cross-section.

PVC C (DVE)

EÜK horizontal bend

Type KH DU 9035 90	mm	Trun- king height mm 35			Weight kg/100 pc. 15.500	Item no. 7425925
Horizontal bend	l, 90°, s	uitable fo	duct size 90x35.			





EÜK-SN PVC underfloor installation ducts, 35 mm

EÜK vertical bend









Vertical bend, 90°, suitable for duct size 90x35.

Fastening clamp for 3x PVC system, trunking height 35 mm

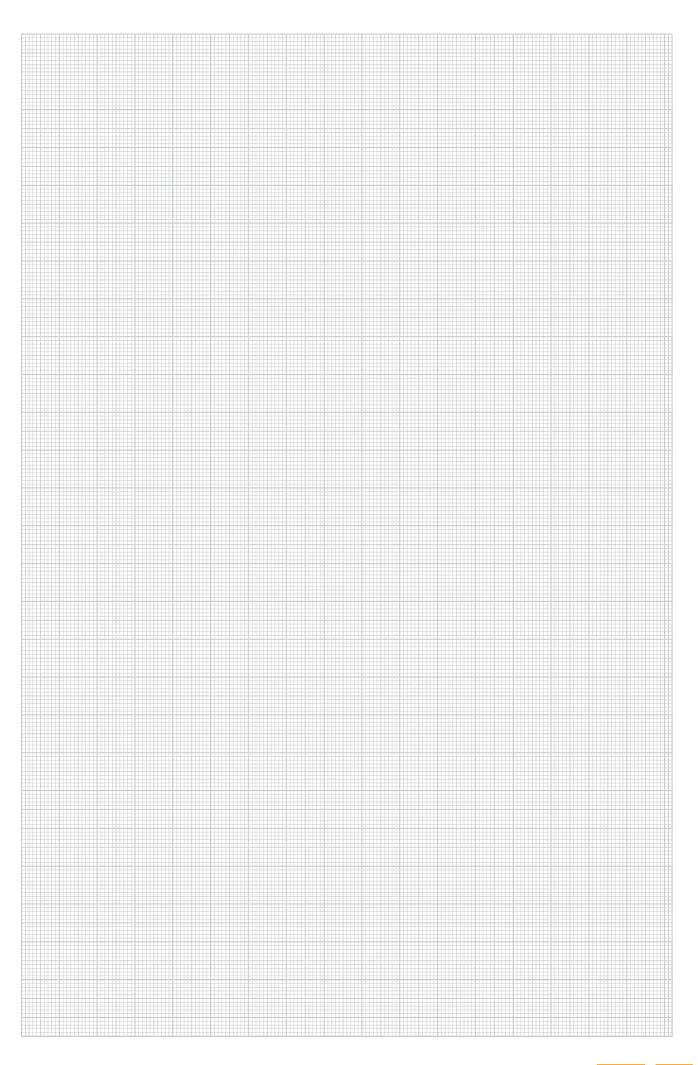








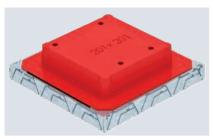
Fixing strap for three neighbouring 1-compartment PVC duct lengths of width 90 mm.



EÜK-SN underfloor sockets for PVC ducts, self-adjusting

Underfloor box UDS4 for PVC duct

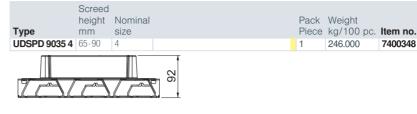


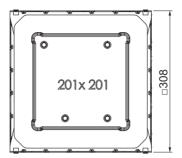




compartment PVC ducts of nominal size 60 x 25 and 90 x 35 on all four sides. The box is princi-

pally suited for use in floor structures in cement screed with a structure height of up to 90 mm.





Screed height Nominal

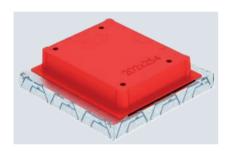
Underfloor box UDS6 for PVC duct



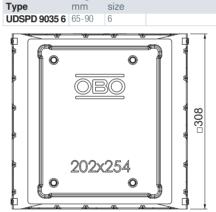
7400350

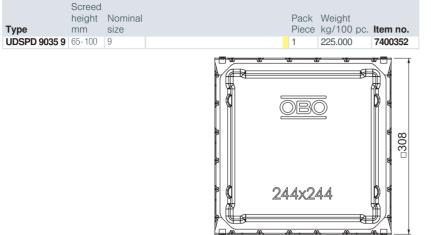
Pack Weight
Piece kg/100 pc. Item no.

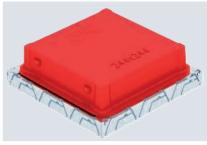
231.000



Underfloor outlet box with fixed, unchangeable 202×254 mm installation opening for an installation unit of nominal size 6. The mounting opening is created using the screed protection cover contained in the scope of supply. The underfloor box possesses installation openings for three single-compartment PVC ducts of nominal size 60×25 and 90×35 on all four sides. The box is principally suited for use in floor structures in cement screed with a structure height of up to 90 mm.



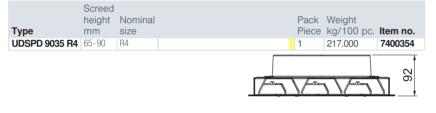


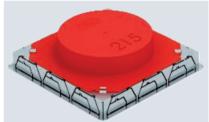


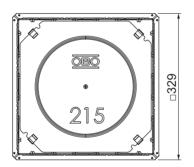
Underfloor outlet box with fixed, unchangeable 244 x 244 mm installation opening for an installation unit of nominal size 9. The mounting opening is created using the screed protection cover contained in the scope of supply. The underfloor box possesses installation openings for three singlecompartment PVC ducts of nominal size 60 x 25 and 90 x 35 on all four sides. The box is principally suited for use in floor structures in cement screed with a structure height of up to 100 mm.

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Underfloor box UDSR4 for PVC duct





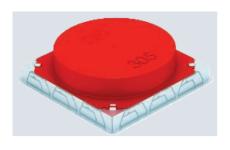


Underfloor outlet box with fixed, unchangeable installation opening of \varnothing 215 mm for an installation unit of nominal size R4. The mounting opening is created using the screed protection cover contained in the scope of supply. The underfloor box possesses installation openings for three single-compartment PVC ducts of nominal size 60 x 25 and 90 x 35 on all four sides. The box is principally suited for use in floor structures in cement screed with a structure height of up to 90 mm.

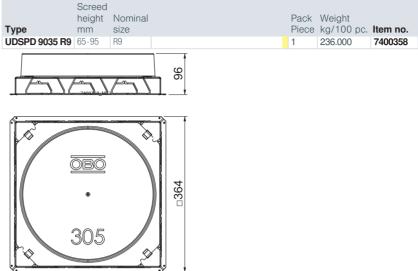
EÜK-SN underfloor sockets for PVC ducts, self-adjusting

Underfloor box UDSR9 for PVC duct





Underfloor outlet box with fixed, unchangeable installation opening of Ø 305 mm for an installation unit of nominal size R9. The mounting opening is created using the screed protection cover contained in the scope of supply. The underfloor box possesses installation openings for three single-compartment PVC ducts of nominal size 60 x 25 and 90 x 35 on all four sides. The box is principally suited for use in floor structures in cement screed with a structure height of up to 95 mm.



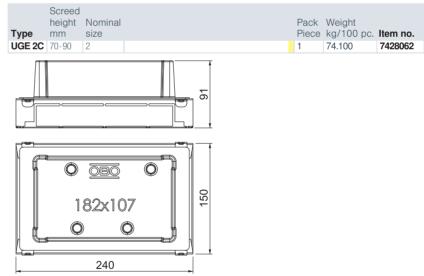
EÜK-SN underfloor connection socket, for metal ducts, self-adjusting

Underfloor box UGE2 for installation pipe and metal duct

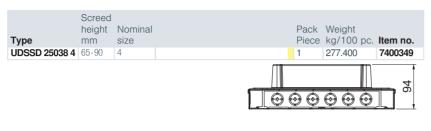


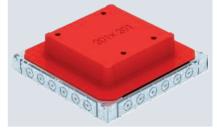


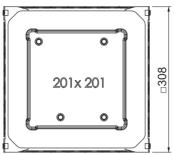
Underfloor outlet box with fixed, unchangeable 106×182 mm installation opening for an installation unit of nominal size 2. The mounting opening is created using the screed protection cover contained in the scope of supply. The underfloor box has two openings for M20 conduit on the narrow sides. The underfloor box is suitable for screed floor constructions with height 70 mm up to 90 mm.



Underfloor box UDS4 for installation pipe and metal duct



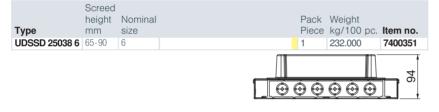




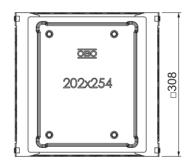
Underfloor outlet box with fixed, unchangeable 201 x 201 mm installation opening for an installation unit of nominal size 4. The mounting opening is created using the screed protection cover contained in the scope of supply. The underfloor box possesses installation openings for a 2 or 3-compartment sheet steel underfloor duct of nominal size 25038 as well as six M20 or M25 installation pipes on all four sides. The box is principally suited for use in floor structures in cement screed with a structure height of up to 90 mm.



Underfloor box UDS6 for installation pipe and metal duct







Underfloor outlet box with fixed, unchangeable 202 x 254 mm installation opening for an installation unit of nominal size 6. The mounting opening is created using the screed protection cover contained in the scope of supply. The underfloor box possesses installation openings for a 2 or 3-compartment sheet steel underfloor duct of nominal size 25038 as well as six M20 or M25 installation pipes on all four sides. The box is principally suited for use in floor structures in cement screed with a structure height of up to 90 mm.

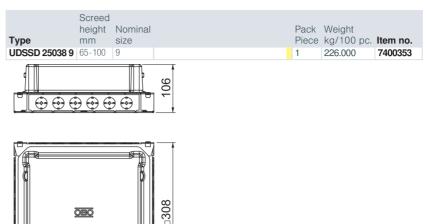
EÜK-SN underfloor connection socket, for metal ducts, self-adjusting

Underfloor box UDS9 for installation pipe and metal duct





Underfloor outlet box with fixed, unchangeable 244 x 244 mm installation opening for an installation unit of nominal size 9. The mounting opening is created using the screed protection cover contained in the scope of supply. The underfloor box possesses installation openings for a 2 or 3-compartment sheet steel underfloor duct of nominal size 25038 as well as six M20 or M25 installation pipes on all four sides. The box is principally suited for use in floor structures in cement screed with a structure height of up to 90 mm.



Underfloor box UDSR4 for installation pipe and metal duct

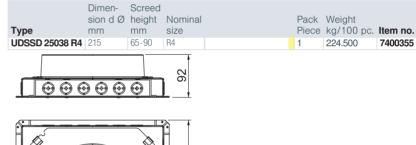


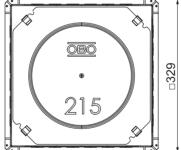
7400355

224.500



Underfloor outlet box with fixed, unchangeable installation opening of Ø 215 mm for an installation unit of nominal size R4. The mounting opening is created using the screed protection cover contained in the scope of supply. The underfloor box possesses installation openings for a 2 or 3compartment sheet steel underfloor duct of nominal size 25038 as well as six M20 or M25 installation pipes on all four sides. The box is principally suited for use in floor structures in cement screed with a structure height of up to 90 mm.

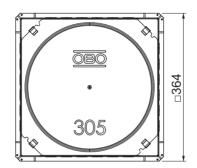




Underfloor box UDSR9 for installation pipe and metal duct







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Underfloor outlet box with fixed, unchangeable installation opening of \varnothing 305 mm for an installation unit of nominal size R9. The mounting opening is created using the screed protection cover contained in the scope of supply. The underfloor box possesses installation openings for a 2 or 3-compartment sheet steel underfloor duct of nominal size 25038 as well as six M20 or M25 installation pipes on all four sides. The box is principally suited for use in floor structures in cement screed with a structure height of up to 95 mm.

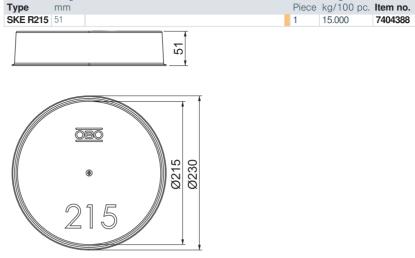
Height extension kit for underfloor box UDSR4



Pack Weight



Height extension kit for screed protection cover of underfloor box UDS or a screed protection cover for installation opening of nominal size R4. Height extension of + 40 mm.



56

Height extension kit for underfloor box UDSR9

Type

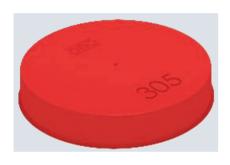
SKE R305 58



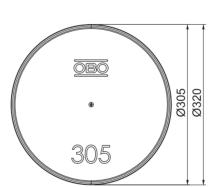
7404392

Pack Weight
Piece kg/100 pc. Item no.

22.000



Height extension kit for screed protection cover of underfloor box UDS or a screed protection cover for installation opening of nominal size R9. Height extension of + 45 mm.



Height

mm

7404394

Pack Weight

Pack Weight

15.000

Piece kg/100 pc. Item no.

Dim. Dim.

Dim. Dim.

В

Height A

201

В mm mm

201

Height A

mm

Type

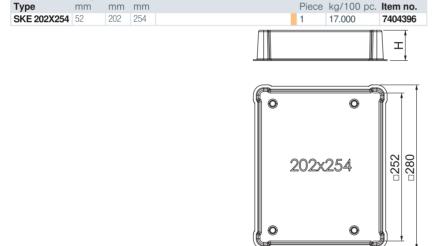
SKE 201X201 52



Height extension kit for screed protection cover of underfloor box UDS or a screed protection cover for installation opening of nominal size 4. Height extension of + 40 mm.



Height extension kit for underfloor box 202 x 245





Height extension kit for screed protection cover of underfloor box UDS or a screed protection cover for installation opening of nominal size 6. Height extension of + 40 mm.

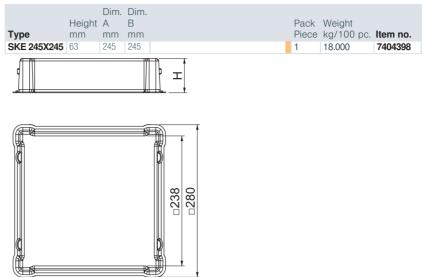
Accessories for underfloor connection sockets, self-levelling

Height extension kit for underfloor box 245 x 245





Height extension kit for screed protection cover of underfloor box UDS or a screed protection cover for installation opening of nominal size 4. Height extension of + 50 mm.



Separating retainer, intersection, for UDS

Type UDS 9 C3



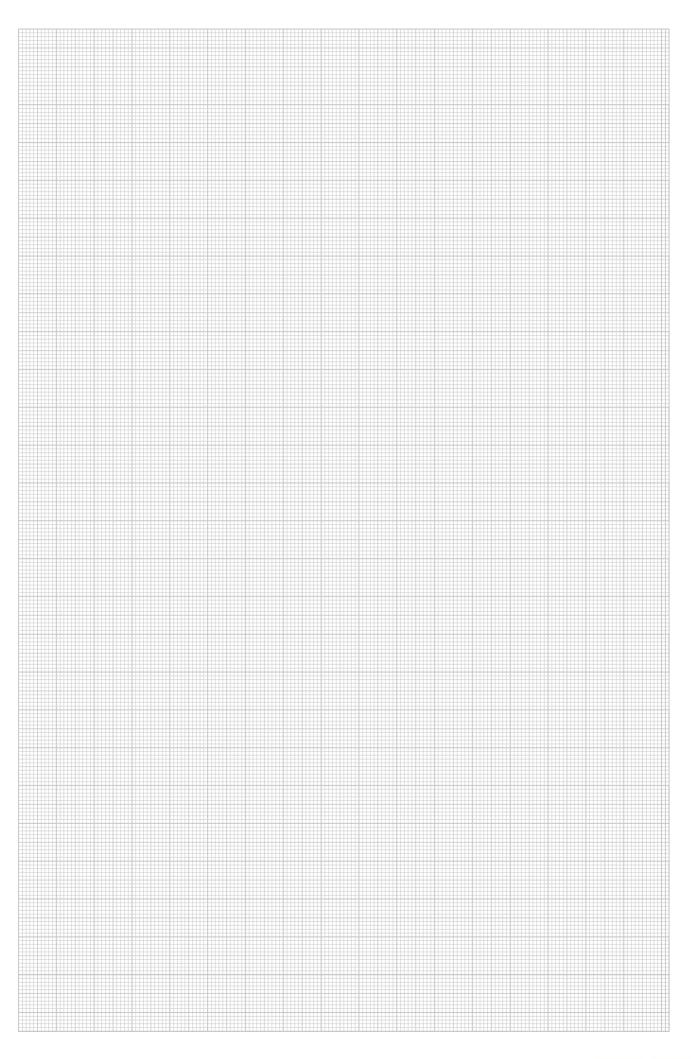
7428336

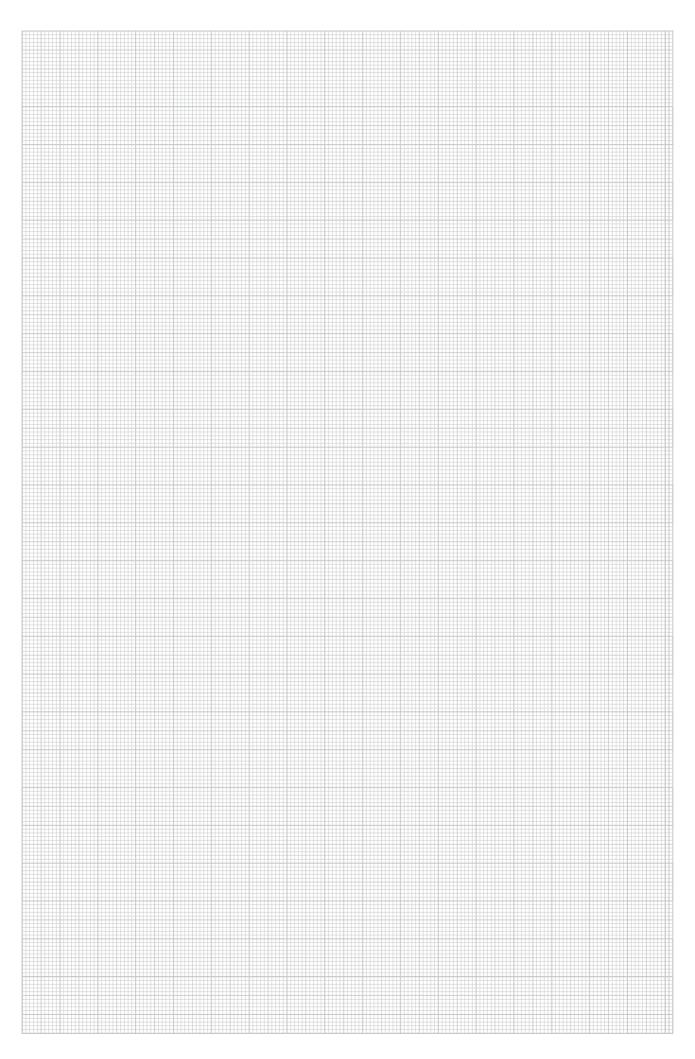
Pack Weight
Piece kg/100 pc. Item no.

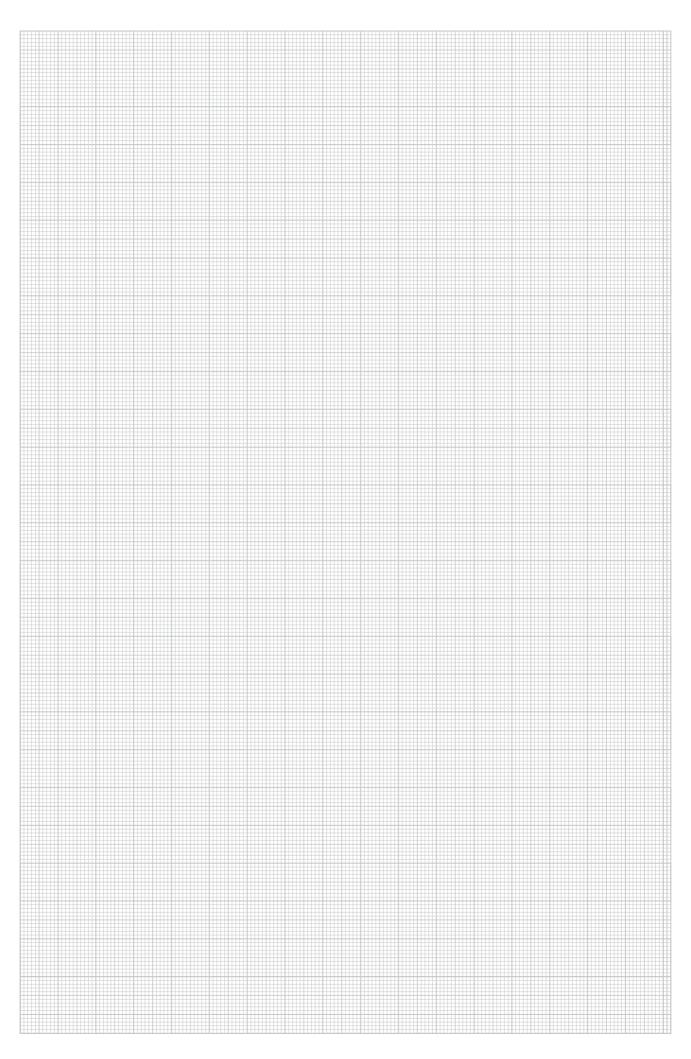
58.000



Separating retainer, 3-compartment, for intersection in a UDS underfloor box.







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Building Connections

